

Heart Cell Coupling and Impulse Propagation in Health and Disease

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Heart Cell Coupling And Impulse Propagation In Health

Stefan Dhein



Heart Cell Coupling And Impulse Propagation In Health:

Heart Cell Coupling and Impulse Propagation in Health and Disease Walmor C. de Mello, M.J. Janse, 2012-12-06
Heart Cell Coupling and Impulse Propagation in Health and Disease includes an up to date review on how heart cells communicate and impulse propagation under normal as well as under pathological conditions The complexity of intercellular coupling and impulse propagation is discussed providing the reader with a broad view of the importance of these processes and how they contribute to the generation of cardiac arrhythmias and heart failure The different aspects and intricacies of heart cell communication is discussed by different authors each one an expert in their own field The present publication will be of interest to cardiologists electrophysiologists heart physiologists cardiac pharmacologists biophysicists and cell or molecular biologists

Renin Angiotensin System and the Heart Walmor C. De Mello, 2005-10-31 Recent studies have shown that the heart possesses an intrinsic renin angiotensin system that is controlled by tissue specific parameters that are activated by biomechanical stress This book reviews the latest information on the way in which both the plasma and cardiac renin angiotensin systems affect heart function It covers the cell and molecular biology of these systems with contributions on renin synthesis uptake and the intracellular signalling pathways Particular insight comes from transgenic mouse models in which either mouse or human genes for various components of the renin angiotensin system are expressed Other topics covered include wound healing as well as the trophic effects of aldosterone Contains the most recent findings on the renin angiotensin system and the heart Written by an international team of distinguished scientists Covers both the cellular and molecular basis of the renin angiotensin system and the clinical relevance of this research *The Local Cardiac*

Renin-Angiotensin Aldosterone System Edward D. Frohlich, Richard N. Re, 2006-01-26 How exciting it is to see a field so well established as the renin angiotensin system continue to grow and mature Originally following the original identification of renin by Tigerstedt and Bergman over 100 years ago workers in this area spent years attempting to establish its role in experimental and renal hypertension The early work by Goldblatt in 1934 demonstrated that the placement of a clip around a renal artery was clearly related to the subsequent development of hypertension However it wasn't until the simultaneous finding by two different geographically separated teams Page et al in the United States and Braun Menendez et al in Argentina that the peptide angiotensin was identified Thus the rate limiting enzyme renin was released from the kidney and catalyzed a biochemical cascade which was eventually shown to produce the elevated arterial pressure Subsequently many workers contributed to the elucidation of the concept and sequence of angiotensin I1 generation Thus the enzyme renin acted upon its protein substrate produced in the liver to liberate the decapeptide angiotensin I which upon circulating through the pulmonary circulation finally produced the potent octapeptide angiotensin Several important subsequent findings demonstrated that angiotensin I1 promoted the release of the adrenal corticosteroid from that gland thereby resulting in a larger system the renin angiotensin aldosterone system Further this system demonstrated a classical

biofeedback and the circulating octapeptide was shown to have additional biological activities in organs other than heart vessels kidney adrenals and even brain

Remodeling of cardiac passive electrical properties and susceptibility to ventricular and atrial arrhythmias George E. Billman, 2015-09-25 The effective management of cardiac arrhythmias either of atrial or of ventricular origin remains a major challenge Sudden cardiac death due to ventricular tachyarrhythmias remains the leading cause of death in industrialized countries while atrial fibrillation is the most common rhythm disorder an arrhythmia that s prevalence is increasing and accounts for nearly one quarter of ischemic strokes the elderly population Yet despite the enormity of the problem effective therapeutic interventions remain elusive In fact several initially promising antiarrhythmic agents were found to increase rather than decrease mortality in patients recovering from myocardial infarction The question then is what went wrong why have these interventions proven to be so ineffective An obvious answer is the drugs were designed to attack the wrong therapeutic target Clearly targeting single ion channels using either isolated ion channels or single myocytes preparations has proven to be less than effective What then is the appropriate target It is well established that cardiac electrical properties can vary substantially between single cells and intact preparations One obvious example is the observation that action potential duration is much longer in isolated cells as compared to multi cellular preparations or intact hearts Due to the low electrical resistance between adjacent myocytes the cells act in coordinated fashion producing electrotonic interdependence between neighboring cells Myocardial infarction and or acute ischemia provoke profound changes in the passive electrical properties of cardiac muscle In particular electrotonic uncoupling of the myocytes disrupts the coordinated activation and repolarization of cardiac tissue The resulting compensatory changes in ionic currents decrease cardiac electrical stability increasing the risk for life threatening changes in the cardiac rhythm Thus the electrical properties of myocardial cells must be considered as a unit rather than in isolation It is the purpose of this Research Topic to evaluate the largely neglected relationship between changes in passive electrical properties of cardiac muscle and arrhythmia formation

Gap Junctions: Molecular Basis of Cell Communication in Health and Disease, 1999-12-22 Since the first gap junction protein connexin was cloned over a decade ago more than a dozen connexin genes have been cloned Consequently a wealth of information on the molecular basis of gap junctional communication has been accumulated This book pays tribute to this exciting era in the history of cell communication research by documenting the great strides made in this field as a result of the merging of biophysics and molecular biology two of the most powerful approaches to studying the molecular basis of membrane channel behavior Twenty eight comprehensive chapters authored by internationally recognized leaders in the field discuss the biophysical physiological and molecular characteristics of cell to cell communication via gap junctions Key aspects of molecular structure formation gating conductance and permeability of vertebrate and invertebrate gap junction channels are highlighted In addition a number of chapters focus on recent discoveries that implicate connexin mutations and alterations of gap junctional communication in

the pathogenesis of several diseases including the X linked Charcot Marie Tooth demyelinating disease some forms of inherited sensorineural deafness malignant transformation cardiac malformations and arrhythmia eye lens cataract and Chagas disease **Renin Angiotensin System and Cardiovascular Disease** Walmor C. DeMello,Edward D.

Frohlich,2009-09-01 This book offers the latest research into the role of the renin angiotensin system on cardiac and vascular functions and in cardiovascular diseases It covers vital aspects such as intracellular signaling and regulation of cell volume in the failing heart **Cardiovascular Gap Junctions** S. Dhein,J. S. Borer,2006-05-04 In recent years gap junction research in the cardiovascular system has considerably improved the understanding of cardiac function and the vasculature in health and disease The present book focuses on the communication of intercellular gap junctions in the cardiovascular system but also includes aspects of physiology medicine and cell biology The first part of this volume highlights the principal aspects of these intercellular channels allowing the readers unfamiliar with the field to get a deeper understanding of the physiology pharmacology and regulation of gap junctions The second part elucidates their role in the pathophysiology of important cardiovascular diseases e g arrhythmia heart failure ischemia atrial fibrillation diabetes and arteriosclerosis This book is of special interest to cardiologists physiologists pharmacologists cardiovascular scientists biophysicists cell biologists as well as to industrial companies engaged in cardiovascular medicine and research Advances in Electrocardiograms Richard Millis,2012-01-25 Electrocardiograms have become one of the most important and widely used medical tools for diagnosing diseases such as cardiac arrhythmias conduction disorders electrolyte imbalances hypertension coronary artery disease and myocardial infarction This book reviews recent advancements in electrocardiography The four sections of this volume Cardiac Arrhythmias Myocardial Infarction Autonomic Dysregulation and Cardiotoxicology provide comprehensive reviews of advancements in the clinical applications of electrocardiograms This book is replete with diagrams recordings flow diagrams and algorithms which demonstrate the possible future direction for applying electrocardiography to evaluating the development and progression of cardiac diseases The chapters in this book describe a number of unique features of electrocardiograms in adult and pediatric patient populations with predilections for cardiac arrhythmias and other electrical abnormalities associated with hypertension coronary artery disease myocardial infarction sleep apnea syndromes pericarditides cardiomyopathies and cardiotoxicities as well as innovative interpretations of electrocardiograms during exercise testing and electrical pacing *Cardiovascular Gap Junctions* Stefan Dhein,2006-01-01 In recent years gap junction research in the cardiovascular system has considerably improved the understanding of cardiac function and the vasculature in health and disease The present book focuses on the communication of intercellular gap junctions in Gap Junctions in Development and Disease Elke Winterhager,2005-11-04 Communication between cells via intercellular channels gap junctions appears essential to certain developmental processes and appropriate organ function Gap Junctions in Development and Disease aims to describe the molecular events underlying impaired development and disease Beginning with a

comprehensive review of various mouse and human genes encoding the channel forming connexins later chapters describe several connexin mutations associated with human diseases such as hereditary deafness and female infertility Erroneous signaling mediated by the interaction of mutant connexins with other proteins thought to be responsible for dysfunction of organs such as heart muscle brain skin lens placenta and endocrine tissue in both mice and men is also addressed Although the question of why some mutations in gap junction proteins lead to specific phenotypes remains to be answered the reviews in this book provide an intriguing insight into the future direction of this research field *Advances In Electrocardiology 2004 - Proceedings Of The 31th International Congress On Electrocardiology* Masayasu Hiraoka, Itsuo Kodama, Hiroshi Inoue, Hiroshi Kasanuki, Takao Katoh, Satoshi Ogawa, 2005-04-13 Electrocardiology has witnessed a century of development since the introduction of Einthoven's Galvanometer With rapid progress in the scientific technological and clinical aspects of the field of electrocardiology in recent years electrocardiology now covers a wide range of topics from molecules as the electrical origin of the heart to diagnostic and therapeutic applications for cardiovascular diseases This volume presents the latest information and developments in the field from basic science to clinical electrocardiology A wide range of topics are covered including molecular biology genetics channelopathy atrial fibrillation catheter ablation modeling of cardiac electrical activity cardiac mapping as well as diagnosis treatment and prevention of cardiac disease and arrhythmic disorders Contributors to the volume include leading experts in the field such as PJ Schwartz C Antzelevitch Y Rudy HJGM Vrijin DG Escande AAM Wilde DA Kass J Jalife and A d Avila The book is an essential source of reference for cardiologists and electrocardiologists **Cardiovascular Applications of Stem Cells** Khawaja H. Haider, 2023-07-05 The book covers multifarious aspects of stem cell based therapy for cardiovascular diseases In addition to stem cells from different sources for cell based therapy it covers stem cell organoids and stem cell derived exosomes in regenerative medicine The book also encompasses advances in state of the art infrastructure to improve the maturation aspects of pluripotent stem cells derived cardiomyocytes using a novel scaffold based cell culture system for cell delivery in experimental animal models and clinical settings Besides the use of mesenchymal stem cells the book includes chapters on the use of cardiac progenitor cells CPCs microtissue implantation use of PSCs for valvulopathies application of decellularized organ arrays as natural scaffolds for cardiac tissue engineering use of epicardial stem cells and skeletal myoblasts in cell based therapy for myocardial regeneration Besides the cell based therapy approach the book also reviews the stem cell derived exosomes their characteristics and engineering strategies to enhance their therapeutic potential via targeting and drug loading and use in disease models Additionally the book also discusses the latest research on injectable hydrogels for cardiovascular regeneration and how hydrogel based delivery protects the cells and their retention post engraftment in the heart a problem which significantly reduces the efficacy of cell based therapy Heart Cell Communication in Health and Disease Walmor C. de Mello, Michiel J. Janse, 1997-12-31 In Heart Cell Communication in Health and Disease an extensive review of different

aspects of heart cell communication is presented The book starts with the fundamental concept that cardiac cells are communicated and then proceeds to the role of gap junctions in heart development the molecular biology of gap junctions the biophysics of the intercellular channels the control of junctional conductance and the influence of gap junctions on impulse propagation This is the first time that a single volume has described cell communication in the normal heart and under different pathological conditions such as heart failure coronary disease myocardial ischemia and cardiac arrhythmias In this way the process of cell communication is analyzed at different levels of complexity providing the reader with a wide view of this field and its relevance to cardiology

Heart Physiology and Pathophysiology Yoshihisa Kurachi, Andre Terzic, Michael V. Cohen, 2000-10-09 Heart Physiology and Pathophysiology 4E provides the foundation for the scientific understanding of heart function and dysfunction and bridges the gap between basic cardiovascular science and clinical cardiology This comprehensive text covers all the important aspects of the heart and vascular system The most important and relevant disorders are presented with emphasis on the mechanisms involved The first three editions of this book developed a reputation as the leading reference in cardiovascular science for researchers and academic cardiologists This recent edition has been updated expanded and includes a number of new contributors It has also been remodeled to expand its usage as a text reference for cardiology residents practicing cardiologists and graduate students

Key Features The most comprehensive book available on this topic Clear concise and complete coverage of all important aspects of cardiovascular physiology pathophysiology Completely updated version of the foremost reference on cardiovascular science including new information on pathophysiology and electrophysiology Useful tool in bridging the gap between basic science pathophysiology and clinical cardiology

Zipes and Jalife's Cardiac Electrophysiology: From Cell to Bedside, E-Book Jose Jalife, William Gregory Stevenson, 2021-12-16 Fully updated from cover to cover Zipes and Jalife s Cardiac Electrophysiology From Cell to Bedside 8th Edition provides the comprehensive multidisciplinary coverage you need from new knowledge in basic science to the latest clinical advances in the field Drs Jos Jalife and William Gregory Stevenson lead a team of global experts who provide cutting edge content and step by step instructions for all aspects of cardiac electrophysiology Packs each chapter with the latest information necessary for optimal basic research as well as patient care Covers new technologies such as CRISPR protein research improved cardiac imaging optical mapping and wearable devices Contains significant updates in the areas of molecular biology and genetics iPSCs induced pluripotent stem cells embryonic stem cells precision medicine antiarrhythmic drug therapy cardiac mapping with advanced techniques and ablation technologies including stereotactic radioablation Includes 47 new chapters covering both basic science and clinical topics Discusses extensive recent progress in the understanding diagnosis and management of arrhythmias including new clinical insights on atrial fibrillation and stroke prevention new advances in the understanding of ventricular arrhythmias in genetic disease and advances in implantable devices and infection management Features 1 600 high quality photographs anatomic and radiographic images

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